

FIG. 1

virus	potency of virus		
	pre-exam	treatment	control(non-treatment)
infectious bronchitis virus boated 42 strain (Coronaciridae)	$10^{3.5}$	$<10^{1.5}$	$10^{5.5}$
influenza type A virus(Aichi strain)	$10^{7.5}$	$10^{2.5}$	$10^{6.5}$
influenza type A virus( 499 strain)	$10^{8.5}$	$10^{3.5}$	$10^{7.5}$
Newcastle disease virus	$10^{7.5}$	$10^{2.5}$	$10^{7.5}$

FIG. 2

No.	試料(サンプル)名	ingredient [chemical formula]	mean particle diameter ( $\mu\text{m}$ )	specific surface area ( $\text{m}^2/\text{g}$ )	remark
1	CaO	calcium oxide [CaO]	9.257	0.697	KISIDA CHEMICAL CO., LTD. for chemical use (for test and/or research use) guaranteed
2	Ca(OH) <sub>2</sub>	calcium hydroxide [Ca(OH) <sub>2</sub> ]	4.903	10.16	KISIDA CHEMICAL CO., LTD. for chemical use (for test and/or research use) guaranteed
	Ca(OH) <sub>2</sub>	calcium hydroxide [Ca(OH) <sub>2</sub> ]	5.882	9.42	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
3	MgO	magnesium oxide [MgO]	2.498	37.13	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
4	Mg(OH) <sub>2</sub>	magnesium hydroxide [Mg(OH) <sub>2</sub> ]	4.000	13.90	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
5	MgO(heavy)	magnesium oxide [MgO]	10.889	5.38	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
6	MgO(heavy) - 10 $\mu\text{m}$	magnesium oxide [MgO]	2.410	23.60	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use (for test and/or research use) guaranteed
7	hydrated lime	calcium hydroxide [Ca(OH) <sub>2</sub> ]	4.850	11.71	UEDA LIME CO., LTD.
8	dolomite	dolomite [MgCO <sub>3</sub> · CaCO <sub>3</sub> ]	19.746	0.919	UEDA LIME CO., LTD.
9	Ca : Mg = 1 : 1	calcium hydroxide [Ca(OH) <sub>2</sub> ] magnesium oxide [Mg(OH) <sub>2</sub> ]	4.663	10.70	WAKO PURE CHEMICALS INDUSTRIES, LTD. mole ratio equivalent mixture
10	the agent according to the present invention		2.516	18.43	MOCHIGASE ELECTRICAL EQUIPMENT CO., LTD. non-surface treatment mean particle diameter: 2.5 $\mu\text{m}$
11	the agent according to the present invention		14.694	13.26	MOCHIGASE ELECTRICAL EQUIPMENT CO., LTD. non-surface treatment mean particle diameter: 2.5 $\mu\text{m}$

FIG. 3

No.	sample	final concentration (w%)	the number of days after preparation	pH value	rate of dilution								
					10 <sup>2</sup>	10 <sup>3</sup>	10 <sup>4</sup>	10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>	10 <sup>9</sup>	10 <sup>9</sup>
1	CaO	0.3	14	11.1	—	—	3/3	3/3	3/3	3/3	—	—	—
2	Ca(OH) <sub>2</sub>	0.3	14	11.4	—	—	—	3/3	3/3	3/3	—	—	—
				12.2	—	3/3	2/3	1/3	0/2	0/3	0/3	—	—
				11.5	—	—	3/3	3/3	0/3	0/3	—	—	—
3	MgO	0.17		12.0	—	—	3/3	2/3	0/3	—	—	—	—
4	Mg(OH) <sub>2</sub>	0.3		10.0	—	—	—	—	3/3	3/3	3/3	—	—
5	MgO(heavy)	0.3		8.8	—	—	—	—	3/3	3/3	2/3	—	—
6	MgO(heavy) — 10 μm	0.3		9.1	—	—	3/3	3/3	3/3	3/3	1/3	—	—
7	hydrated lime	0.3		9.7	—	—	3/3	3/3	3/3	3/3	1/3	—	—
8	dolomite	0.3	14	12.3	—	—	3/3	1/3	0/3	—	—	—	—
				11.5	—	—	—	3/3	2/2	0/3	—	—	—
				7.8	—	—	3/3	3/3	3/3	3/3	3/3	—	—
9	Ca : Mg = 1 : 1	0.3		12.1	—	3/3	3/3	2/2	0/3	0/3	0/3	—	—
10	the agent according to the present invention	0.3	14	11.2	—	—	—	—	3/3	3/3	—	—	—
				11.8	—	—	—	—	3/3	2/3	0/3	—	—
				12.0	—	3/3	3/3	0/3	0/3	0/3	0/3	—	—
11	the agent according to the present invention	0.3	14	11.7	—	—	2/3	0/3	0/3	—	—	—	—
				11.7	—	—	—	3/3	3/3	—	—	—	—
				12.0	—	—	3/3	1/3	0/3	—	—	—	—
12	Control (PBS)	1/10 Concentration		12.0	—	—	3/3	2/3	0/3	0/3	—	—	—
13	supernatant liquid of sample No.10	1/10 Concentration	14	8.0	—	—	—	—	—	3/3	1/3	0/3	—
				7.9	—	—	—	—	—	3/3	1/3	0/3	—
				7.8	—	—	—	—	—	3/3	1/3	0/3	—
14	titration			8.9	—	3/3	3/3	3/3	0/3	0/3	0/3	—	—

※ the result of infection—the number of eggs infected/ the number of eggs inoculated with a virus

FIG. 4

No.	sample	mean particle diameter ( $\mu\text{m}$ )	final concentration (w%)	the number of days after preparation	pH value	( $\text{EID}_{50}/0.2\text{ml}$ ) 10 min.
1	CaO	9.257	0.3	14	11.1	$10^{7.50} <$
					11.4	$10^{7.50} <$
2	$\text{Ca}(\text{OH})_2$	5.382	0.3	14	12.2	$10^{4.50}$
					11.5	$10^{3.50}$
3	MgO	2.498	0.17		12.0	$10^{5.25}$
4	$\text{Mg}(\text{OH})_2$	4.000	0.3		10.0	$10^{8.50} <$
5	$\text{MgO}(\text{heavy})$	10.889	0.3		8.8	$10^{8.34} <$
6	$\text{MgO}(\text{heavy}) - 10 \mu\text{m}$	2.410	0.3		9.1	$10^{7.75}$
					9.7	$10^{7.75}$
7	hydrated lime	4.850	0.3		12.3	$10^{4.75}$
			0.17		11.5	$10^{8.50}$
8	dolomite	19.746	0.3		7.8	$10^{8.50} <$
					12.1	$10^{5.50}$
9	Ca : Mg = 1 : 1	4.663	0.3	14	11.2	$10^{7.50} <$
					11.8	$10^{8.25}$
10	the agent according to the present invention	2.516	0.3		12.0	$10^{4.50}$
					11.7	$10^{4.24}$
				14	11.7	$10^{6.50} <$
					12.0	$10^{5.00}$
11	the agent according to the present invention	14.594	0.3		12.0	$10^{5.50}$
12	Control (PBS)		1/10 Concentration		8.0	$10^{7.75}$
					7.9	$10^{7.75}$
					7.8	$10^{7.75}$
13	supernatant liquid of sample No. 10				8.9	$10^{8.00}$
14	titration :					$10^{8.24}$

FIG. 5

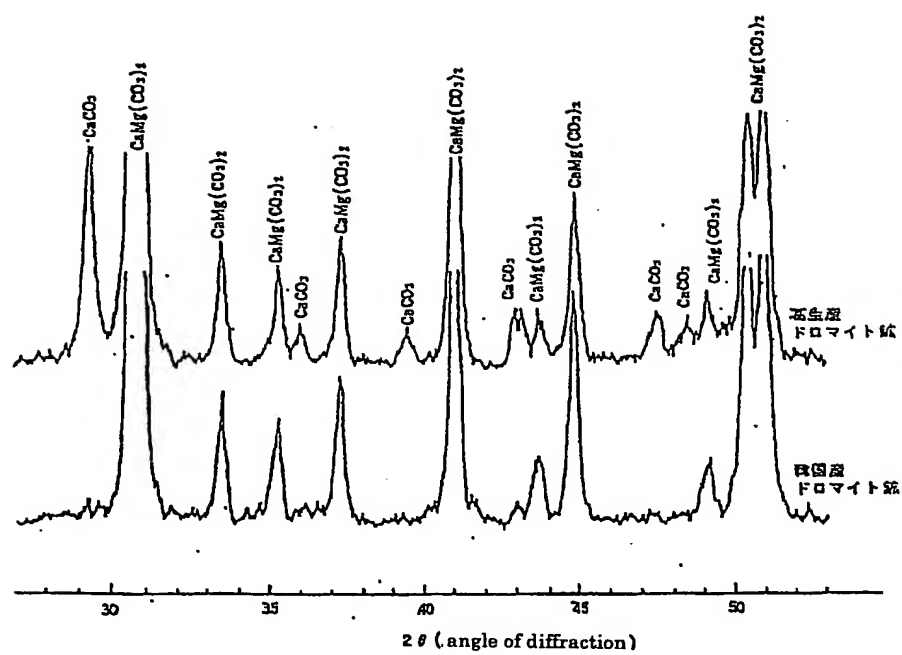


FIG. 6

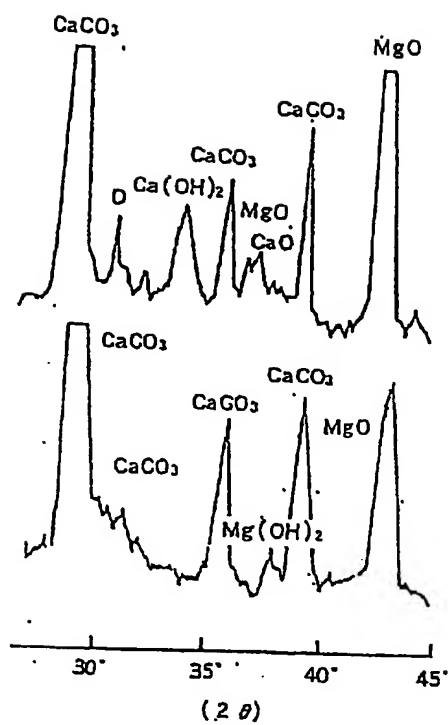


FIG. 7

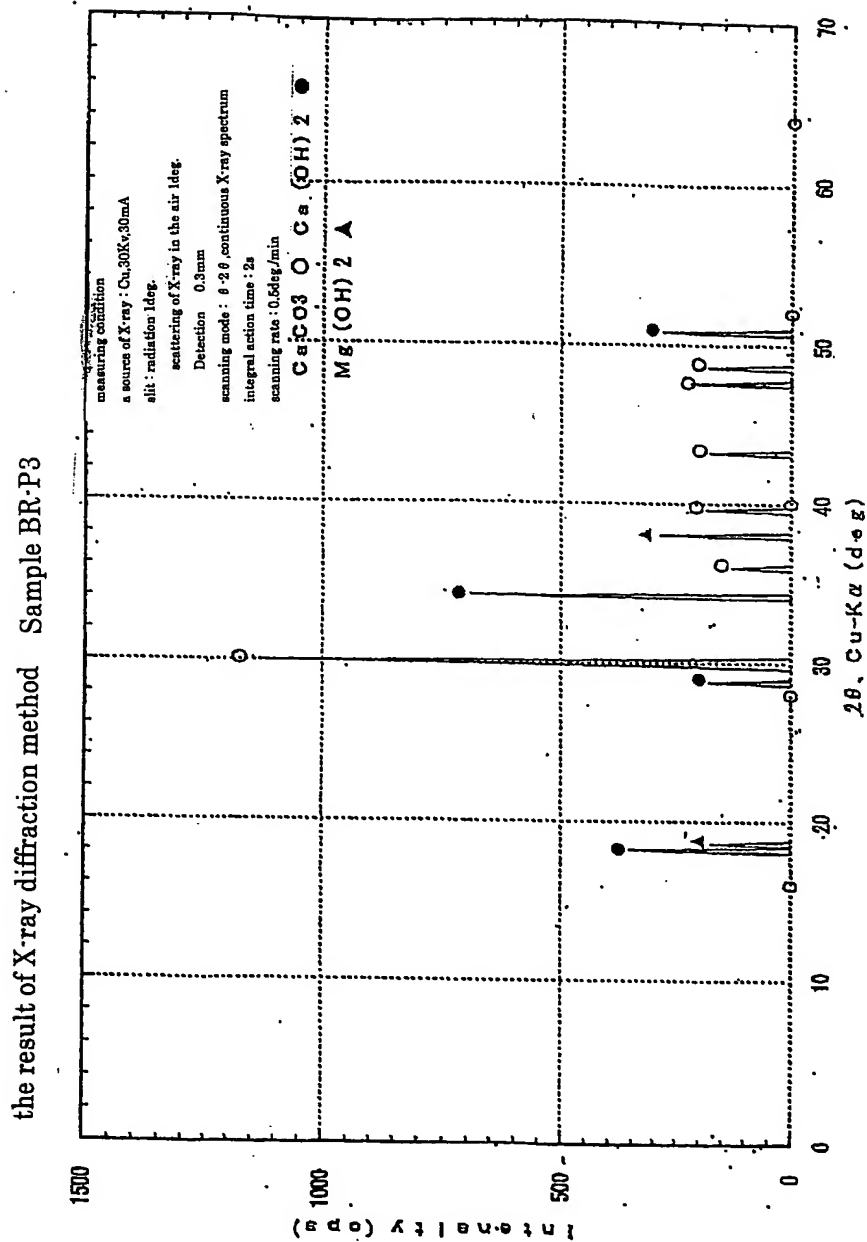


FIG. 8

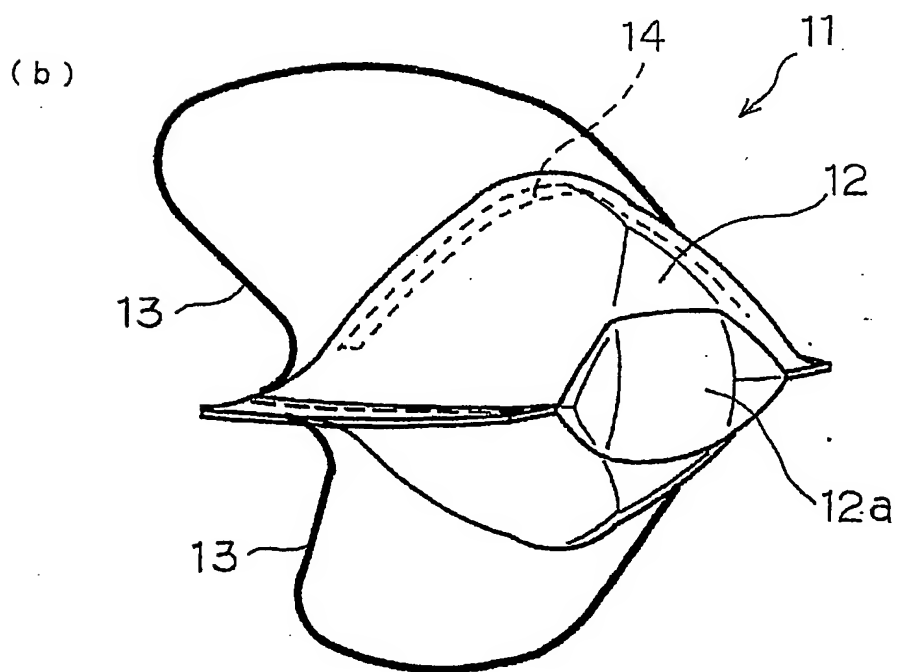
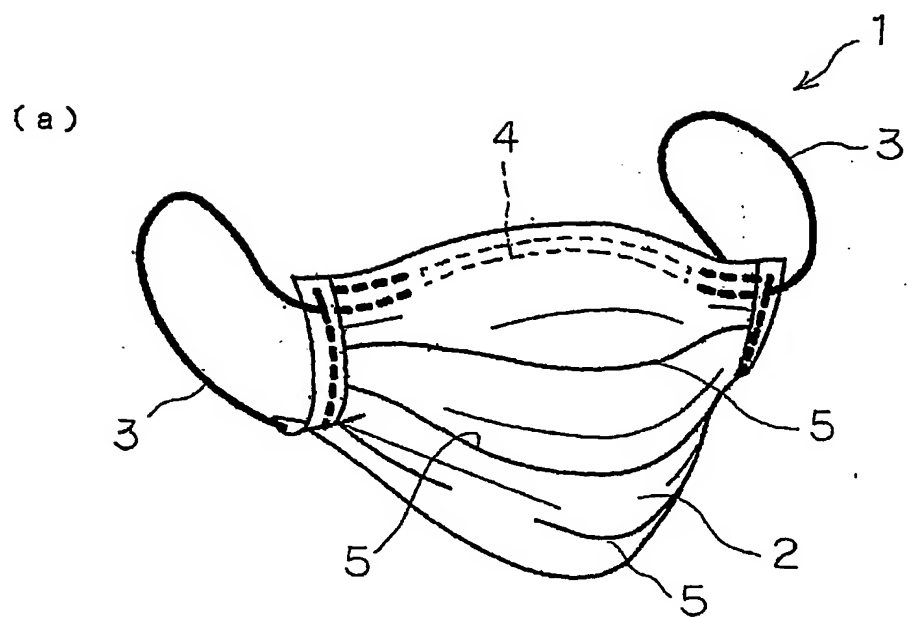




FIG. 9

